

GenCore version 5.1.4\_p5\_4578  
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OM protein - protein search, using sw model

Run on: April 9, 2003, 08:34:29 ; Search time 15 Seconds  
(without alignments)  
337.383 Million cell updates/sec

Title: us-09-746-919-2

Perfect score: 907

Sequence: 1 CYLSRKLMDARENKLLDR.....TVSTTLQKRLTKMGDLNSP 172

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents\_Aa:\*

- 1: /cgn2\_6/ptodata/1/iaa/5A\_COMB.pep:\*
- 2: /cgn2\_6/ptodata/1/iaa/5B\_COMB.pep:\*
- 3: /cgn2\_6/ptodata/1/iaa/6A\_COMB.pep:\*
- 4: /cgn2\_6/ptodata/1/iaa/6B\_COMB.pep:\*
- 5: /cgn2\_6/ptodata/1/iaa/PTCUS\_COMB.pep:\*
- 6: /cgn2\_6/ptodata/1/iaa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description       |
|------------|-------|-------------|--------|-------|-------------------|
| 1          | 907   | 100.0       | 172    | 1     | US-08-438-753B-2  |
| 2          | 907   | 100.0       | 172    | 1     | US-08-443-883A-2  |
| 3          | 907   | 100.0       | 172    | 2     | US-08-631-328-2   |
| 4          | 907   | 100.0       | 172    | 2     | US-08-455-524B-2  |
| 5          | 907   | 100.0       | 172    | 2     | US-08-455-021B-2  |
| 6          | 907   | 100.0       | 172    | 4     | US-09-045-467-2   |
| 7          | 907   | 100.0       | 172    | 4     | US-08-954-395A-18 |
| 8          | 907   | 100.0       | 172    | 4     | US-08-616-904-2   |
| 9          | 857.5 | 94.5        | 156    | 4     | US-09-487-792-12  |
| 10         | 723   | 79.7        | 195    | 4     | US-09-487-792-11  |
| 11         | 612   | 67.5        | 172    | 1     | US-08-438-753B-4  |
| 12         | 612   | 67.5        | 172    | 1     | US-08-438-753B-44 |
| 13         | 612   | 67.5        | 172    | 1     | US-08-443-883A-4  |
| 14         | 612   | 67.5        | 172    | 1     | US-08-443-883A-44 |
| 15         | 612   | 67.5        | 172    | 2     | US-08-631-328-4   |
| 16         | 612   | 67.5        | 172    | 2     | US-08-631-328-44  |
| 17         | 612   | 67.5        | 172    | 2     | US-08-455-524B-4  |
| 18         | 612   | 67.5        | 172    | 2     | US-08-455-524B-44 |
| 19         | 612   | 67.5        | 172    | 2     | US-08-455-021B-4  |
| 20         | 612   | 67.5        | 172    | 2     | US-08-455-021B-44 |
| 21         | 612   | 67.5        | 172    | 4     | US-09-045-467-4   |
| 22         | 612   | 67.5        | 172    | 4     | US-09-045-467-44  |
| 23         | 612   | 67.5        | 172    | 4     | US-08-616-904-4   |
| 24         | 612   | 67.5        | 195    | 1     | US-08-438-753B-12 |
| 25         | 612   | 67.5        | 195    | 1     | US-08-443-883A-12 |
| 26         | 612   | 67.5        | 195    | 2     | US-08-631-328-12  |
| 27         | 612   | 67.5        | 195    | 2     | US-08-455-524B-12 |

28 612 67.5 195 2 US-08-455-021B-12 Sequence 12, Appl  
29 612 67.5 195 4 US-09-045-467-12 Sequence 12, Appl  
30 604 66.6 171 1 US-08-438-753B-30 Sequence 30, Appl  
31 604 66.6 171 1 US-08-443-883A-30 Sequence 30, Appl  
32 604 66.6 171 2 US-08-631-328-30 Sequence 30, Appl  
33 604 66.6 171 2 US-08-455-524B-30 Sequence 30, Appl  
34 604 66.6 171 2 US-08-455-021B-30 Sequence 30, Appl  
35 604 66.6 171 4 US-09-045-467-30 Sequence 30, Appl  
36 600.5 66.2 194 4 US-09-487-792-5 Sequence 5, Appl  
37 599 66.0 172 1 US-08-438-753B-34 Sequence 34, Appl  
38 599 66.0 172 1 US-08-443-883A-34 Sequence 34, Appl  
39 599 66.0 172 2 US-08-631-328-34 Sequence 34, Appl  
40 599 66.0 172 2 US-08-455-524B-34 Sequence 34, Appl  
41 599 66.0 172 2 US-08-455-021B-34 Sequence 34, Appl  
42 599 66.0 172 4 US-09-045-467-34 Sequence 34, Appl  
43 599 66.0 172 4 US-08-616-904-6 Sequence 6, Appl  
44 599 66.0 195 1 US-08-438-753B-32 Sequence 32, Appl  
45 599 66.0 195 1 US-08-443-883A-32 Sequence 32, Appl

#### ALIGNMENTS

RESULT 1  
US-08-438-753B-2  
; Sequence 2, Application US/08438753B  
; Patent No. 5705363  
; GENERAL INFORMATION:  
; APPLICANT: Inakawa, Kazuhito  
; TITLE OF INVENTION: Interferon Tau Compositions and  
; TITLE OF INVENTION: Methods of Use  
; NUMBER OF SEQUENCES: 44  
; CORRESPONDENCE ADDRESS:  
; ADDRESSER: Dehlinger & Associates  
; STREET: 350 Cambridge Ave., Suite 250  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94306  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/438,753B  
; FILING DATE: 10-MAY-1995  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/139,891  
; FILING DATE: 19-OCT-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/847,741  
; FILING DATE: 09-MAR-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/318,050  
; FILING DATE: 02-MAR-1989  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/969,890  
; FILING DATE: 30-OCT-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Sholtz, Charles K.  
; REGISTRATION NUMBER: 38,615  
; REFERENCE/DOCKET NUMBER: 5600-0001.30  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-324-0880  
; TELEFAX: 415-324-0960  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 172 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein

; ORIGINAL SOURCE: amino acid sequence of a mature  
 ; INDIVIDUAL ISOLATE: OviFNTau protein  
 ; INDIVIDUAL ISOLATE:  
 US-08-438-753B-2

|                       |                 |                   |           |             |
|-----------------------|-----------------|-------------------|-----------|-------------|
| Query Match           | 100.0%;         | Score 907;        | DB 1;     | Length 172; |
| Best Local Similarity | 100.0%;         | Pred. No. 2e-100; |           |             |
| Matches 172;          | Conservative 0; | Mismatches 0;     | Indels 0; | Gaps 0;     |

|    |     |           |             |           |              |             |          |                    |     |     |
|----|-----|-----------|-------------|-----------|--------------|-------------|----------|--------------------|-----|-----|
| QY | 1   | CYLSRKLM  | DARENLKLLDR | RNRLSPHSC | LQDRKDFGLPOE | WVSCDQLQKDQ | APPVLYEM | 60                 |     |     |
| Db | 1   | CYLSRKLM  | DARENLKLLDR | RNRLSPHSC | LQDRKDFGLPOE | WVSCDQLQKDQ | APPVLYEM | 60                 |     |     |
| QY | 61  | LQOSNLFLY | THSSAA      | DDTLTLL   | EQLCGTG      | QQQLDHL     | DCRCGV   | MGEEDESELGNMDPIVTV | 120 |     |
| Db | 61  | LQOSNLFLY | THSSAA      | DDTLTLL   | EQLCGTG      | QQQLDHL     | DCRCGV   | MGEEDESELGNMDPIVTV | 120 |     |
| QY | 121 | KRYFQGI   | YDYIQE      | KGYSDCA   | WEIVRV       | EMMRALTV    | STTLQKRL | TKMGGD             | NSP | 172 |
| Db | 121 | KRYFQGI   | YDYIQE      | KGYSDCA   | WEIVRV       | EMMRALTV    | STTLQKRL | TKMGGD             | NSP | 172 |

## RESULT 2

US-08-443-883A-2  
: Sequence 2, Application US/08443883A  
: Patent No. 5738845

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: LENGTH: 172 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: ORIGINAL SOURCE:
: INDIVIDUAL ISOLATE: amino acid sequence of a mature
: INDIVIDUAL ISOLATE: OviEntau protein
: US-08-443-883a-2

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|    | Query Match           | 100.0%;  | Score 907;        | DB 1;     | Length 172; |
|----|-----------------------|--|-------------------|-----------|-------------|
|    | Best Local Similarity | 100.0%;  | Pred. No. 2e-100; |           |             |
|    | Matches 172;          | Conservative 0;  | Mismatches 0;     | Indels 0; | Gaps        |
| QY | 1                     | CYLSRKLMWDARENLKLLDRNRLSPHSCLODRKRGELPQENVESDOLQKDQAPPLYEM   | 60                |           |             |
|    |                       |  |                   |           |             |
| Db | 1                     | CYLSRKLMWDARENLKLLDRNRLSPHSCLODRKRGELPQENVESDOLQKDQAPPLYEM   | 60                |           |             |
|    |                       |  |                   |           |             |
| QY | 61                    | LQOSFNLFYETHSSAAWDTLLLEQLCTGLQQQLDHLDTCRGVMGDESESLGNMDDPIVTV | 120               |           |             |
|    |                       |  |                   |           |             |
| Db | 61                    | LQOSFNLFYETHSSAAWDTLLLEQLCTGLQQQLDHLDTCRGVMGDESESLGNMDDPIVTV | 120               |           |             |
|    |                       |  |                   |           |             |
| QY | 121                   | KKFGQGYDYLQEKGYSDCAWEIVRVEMMRALVSTTLOKRLLTKMGDDLNSP          | 172               |           |             |
|    |                       |  |                   |           |             |
| Db | 121                   | KKFGQGYDYLQEKGYSDCAWEIVRVEMMRALVSTTLOKRLLTKMGDDLNSP          | 172               |           |             |
|    |                       |  |                   |           |             |

### RESULT 3

```

US-08-631-328-2
; Sequence 2, Application US/08631328
; Patent No. 5939286
; GENERAL INFORMATION:
; APPLICANT: Johnson, Howard M.
; APPLICANT: Pontzer, Carol H.
; APPLICANT: Subramaniam, Prem S.
; TITLE OF INVENTION: Hybrid Interferon Compositions and
; TITLE OF INVENTION: Methods of use
; NUMBER OF SEQUENCES: 55
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dehlinger & Associates
; STREET: 350 Cambridge Ave., Suite 250
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC Compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/631,328
; FILING DATE: 12-APR-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/438,753
; FILING DATE: 10-MAY-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Sholtz, Charles K.
; REGISTRATION NUMBER: 38,615
; REFERENCE/DOCKET NUMBER: 5600-0001.34
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-324-0880
; TELEFAX: 415-324-0960
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 172 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: amino acid sequence of a mature
; INDIVIDUAL ISOLATE: OviEntau protein
; US-08-631-328-2

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Query Match 100.0%; Score 907; DB 2; Length 172;  
Best Local Similarity 100.0%; Pred. No. 2e-100;  
Matches 172; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CYLSRKLMDARENKLLDRNRLSPHSCIQDRKDFGLPQEMVEGDQLQKQDAFPVLYEM 60  
DB 1 CYLSRKLMDARENKLLDRNRLSPHSCIQDRKDFGLPQEMVEGDQLQKQDAFPVLYEM 60  
QY 61 LQOSNLFYTHSSAAMDITLLEQLCTGLQQLDHLDTCRGQVNGEEDSELGNMDPIVTV 120  
DB 61 LQOSNLFYTHSSAAMDITLLEQLCTGLQQLDHLDTCRGQVNGEEDSELGNMDPIVTV 120  
QY 121 KKYFGIYDYLQEKGYSDCAWEIVRVMRALTVSTTLQKRLTKMGDLNSP 172  
DB 121 KKYFGIYDYLQEKGYSDCAWEIVRVMRALTVSTTLQKRLTKMGDLNSP 172

RESULT 4  
US-08-455-524B-2  
; Sequence 2, Application US/0845524B  
; Patent No. 5942223  
; GENERAL INFORMATION:  
; APPLICANT: Bazer, Fuller W.  
; APPLICANT: Johnson, Howard M.  
; APPLICANT: Pontzer, Carol H.  
; APPLICANT: Ott, Troy L.  
; APPLICANT: Van Heeke, Gino  
; TITLE OF INVENTION: Interferon Tau Compositions and  
; TITLE OF INVENTION: Methods of Use  
; NUMBER OF SEQUENCES: 44  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Dehlinger & Associates  
; STREET: 350 Cambridge Ave., Suite 250  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94306  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/455,524B  
; FILING DATE: 31-MAY-1995  
; CLASSIFICATION: 435  
; APPLICATION NUMBER: US 08/438,753  
; FILING DATE: 10-MAY-1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/139,891  
; FILING DATE: 19-OCT-1993  
; APPLICATION NUMBER: US 07/847,741  
; FILING DATE: 09-MAR-1992  
; APPLICATION NUMBER: US 07/318,050  
; FILING DATE: 02-MAR-1989  
; APPLICATION NUMBER: US 07/969,890  
; FILING DATE: 30-OCT-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Sholtz, Charles K.  
; REGISTRATION NUMBER: 38,615  
; REFERENCE/DOCKET NUMBER: 5600-0001.32  
; TELEPHONE: 415-324-0880  
; TELEFAX: 415-324-0960  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 172 amino acids  
; TYPE: amino acid

TOPOLOGY: linear  
MOLECULE TYPE: protein  
ORIGINAL SOURCE:  
INDIVIDUAL ISOLATE: amino acid sequence of a mature  
INDIVIDUAL ISOLATE: OVIENtau protein  
US-08-455-524B-2

Query Match 100.0%; Score 907; DB 2; Length 172;  
Best Local Similarity 100.0%; Pred. No. 2e-100;  
Matches 172; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CYLSRKLMDARENKLLDRNRLSPHSCIQDRKDFGLPQEMVEGDQLQKQDAFPVLYEM 60  
DB 1 CYLSRKLMDARENKLLDRNRLSPHSCIQDRKDFGLPQEMVEGDQLQKQDAFPVLYEM 60  
QY 61 LQOSNLFYTHSSAAMDITLLEQLCTGLQQLDHLDTCRGQVNGEEDSELGNMDPIVTV 120  
DB 61 LQOSNLFYTHSSAAMDITLLEQLCTGLQQLDHLDTCRGQVNGEEDSELGNMDPIVTV 120  
QY 121 KKYFGIYDYLQEKGYSDCAWEIVRVMRALTVSTTLQKRLTKMGDLNSP 172  
DB 121 KKYFGIYDYLQEKGYSDCAWEIVRVMRALTVSTTLQKRLTKMGDLNSP 172

RESULT 5  
US-08-455-021B-2  
; Sequence 2, Application US/08455021B  
; GENERAL INFORMATION:  
; APPLICANT: Bazer, Fuller W.  
; APPLICANT: Johnson, Howard M.  
; APPLICANT: Pontzer, Carol H.  
; APPLICANT: Ott, Troy L.  
; APPLICANT: Van Heeke, Gino  
; APPLICANT: Imakawa, Kazuhito  
; TITLE OF INVENTION: Interferon Tau Compositions and  
; TITLE OF INVENTION: Methods of Use  
; NUMBER OF SEQUENCES: 44  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Dehlinger & Associates  
; STREET: 350 Cambridge Ave., Suite 250  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94306  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/455,021B  
; FILING DATE: 31-MAY-1995  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/139,891  
; FILING DATE: 19-OCT-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/847,741  
; FILING DATE: 09-MAR-1992  
; APPLICATION NUMBER: US 07/318,050  
; FILING DATE: 02-MAR-1989  
; APPLICATION NUMBER: US 07/969,890  
; FILING DATE: 30-OCT-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Sholtz, Charles K.  
; REGISTRATION NUMBER: 38,615  
; REFERENCE/DOCKET NUMBER: 5600-0001.31  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-324-0880  
; TELEFAX: 415-324-0960  
; INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:  
LENGTH: 172 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
ORIGINAL SOURCE:  
INDIVIDUAL ISOLATE: amino acid sequence of a mature  
OVIFNTau protein

US-08-455-021B-2

Query Match 100.0%; Score 907; DB 2; Length 172;  
Best Local Similarity 100.0%; Pred. No. 2e-100;  
Matches 172; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 CYLSRKLMDARENKLLDRNRLSPHSCLQDRKDFGLPQEMVEGDQLQKDAQFPVLYEM 60  
DB 1 CYLSRKLMDARENKLLDRNRLSPHSCLQDRKDFGLPQEMVEGDQLQKDAQFPVLYEM 60  
QY 61 LQOSFNLFYTHSSAANDTTLLLEQLCTGLQQLDHLDTCRGVNMGDESELGNMDPIVTV 120  
DB 61 LQOSFNLFYTHSSAANDTTLLLEQLCTGLQQLDHLDTCRGVNMGDESELGNMDPIVTV 120  
QY 121 KKYFGIYDYLQEGYSDCAWEIVRVMRALTVTSTTLQKRLTKMGDLNSP 172  
DB 121 KKYFGIYDYLQEGYSDCAWEIVRVMRALTVTSTTLQKRLTKMGDLNSP 172

## RESULT 6

US-09-045-467-2  
Sequence 2, Application US/09045467  
GENERAL INFORMATION:  
APPLICANT: Johnson, Howard M.  
PONTZER, Carol H.  
TITLE OF INVENTION: Interferon Tau Compositions and  
Methods of Use  
NUMBER OF SEQUENCES: 44  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Dehlinger & Associates  
STREET: 350 Cambridge Ave., Suite 250  
CITY: Palo Alto  
STATE: CA  
COUNTRY: USA  
ZIP: 94306  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/045,467  
FILING DATE: 20-Mar-1998  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/455,021  
FILING DATE: 31-MAY-1995  
APPLICATION NUMBER: US 08/438,753  
FILING DATE: 10-MAY-1995  
APPLICATION NUMBER: US 08/139,891  
FILING DATE: 19-OCT-1993  
APPLICATION NUMBER: US 07/847,741  
FILING DATE: 09-MAR-1992  
APPLICATION NUMBER: US 07/318,050  
FILING DATE: 02-MAR-1989  
APPLICATION NUMBER: US 07/969,890  
FILING DATE: 30-OCT-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: Dehlinger, Peter J.  
REGISTRATION NUMBER: 28,006  
REFERENCE/DOCKET NUMBER: 5600-0001.36  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 650-324-0880  
TELEFAX: 650-324-0960  
INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:  
LENGTH: 172 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
ORIGINAL SOURCE:  
INDIVIDUAL ISOLATE: amino acid sequence of a mature  
OVIFNTau protein

US-09-045-467-2

Query Match 100.0%; Score 907; DB 4; Length 172;  
Best Local Similarity 100.0%; Pred. No. 2e-100;  
Matches 172; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 CYLSRKLMDARENKLLDRNRLSPHSCLQDRKDFGLPQEMVEGDQLQKDAQFPVLYEM 60  
DB 1 CYLSRKLMDARENKLLDRNRLSPHSCLQDRKDFGLPQEMVEGDQLQKDAQFPVLYEM 60  
QY 61 LQOSFNLFYTHSSAANDTTLLLEQLCTGLQQLDHLDTCRGVNMGDESELGNMDPIVTV 120  
DB 61 LQOSFNLFYTHSSAANDTTLLLEQLCTGLQQLDHLDTCRGVNMGDESELGNMDPIVTV 120  
QY 121 KKYFGIYDYLQEGYSDCAWEIVRVMRALTVTSTTLQKRLTKMGDLNSP 172  
DB 121 KKYFGIYDYLQEGYSDCAWEIVRVMRALTVTSTTLQKRLTKMGDLNSP 172

## RESULT 7

US-08-954-395A-18  
Sequence 18, Application US/08954395A  
Patent No. 6204022  
GENERAL INFORMATION:  
APPLICANT: Johnson, Howard M.  
APPLICANT: Subramaniam, Prem S.  
APPLICANT: Pontzer, Carol H.  
APPLICANT: Villarete, Lorelie H.  
APPLICANT: Campos, Jackeline  
APPLICANT: Chung, Albert D.  
APPLICANT: Li, Wayne W.  
APPLICANT: Liu, Philip T.  
TITLE OF INVENTION: LOW-TOXICITY HUMAN INTERFERON-ALPHA  
NUMBER OF SEQUENCES: 35  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Dehlinger & Associates LLP  
STREET: 350 Cambridge Ave., Suite 250  
CITY: Palo Alto  
STATE: CA  
COUNTRY: USA  
ZIP: 94306  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/954,395A  
FILING DATE: Filed Herewith  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/631,328  
FILING DATE: 12-APR-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Dehlinger, Peter J.  
REGISTRATION NUMBER: 27008  
REFERENCE/DOCKET NUMBER: 5600-0001.35  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 650-324-0880  
TELEFAX: 650-324-0960  
INFORMATION FOR SEQ ID NO: 18:  
SEQUENCE CHARACTERISTICS:

; LENGTH: 172 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; IMMEDIATE SOURCE:  
; LIBRARY: GenBank Accessn. Y00287, PID g1358  
; CLONE: Ovine IFN-tau, mature protein  
US-08-954-395A-18

Query Match 100.0%; Score 907; DB 4; Length 172;  
Best Local Similarity 100.0%; Pred. No. 2e-100;  
Matches 172; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 CYLSRKLMLDARENKLLDRMNLSPHSCLDQRKDFGLPQEMVEGDLQKQDQAPFVLYEM 60  
DB 1 CYLSRKLMLDARENKLLDRMNLSPHSCLDQRKDFGLPQEMVEGDLQKQDQAPFVLYEM 60  
QY 61 LQOSFNLFYTEHSSAAWDTLLLEQLCTGLQOQLDHLDTCRGQVMEGDSSELGNMDDPIVTV 120  
DB 61 LQOSFNLFYTEHSSAAWDTLLLEQLCTGLQOQLDHLDTCRGQVMEGDSSELGNMDDPIVTV 120  
QY 121 KKYFGIYDYLQEKGYSDCAWEIVRVMRALTVTSTTLQKRLTKMGDLNSP 172  
DB 121 KKYFGIYDYLQEKGYSDCAWEIVRVMRALTVTSTTLQKRLTKMGDLNSP 172

RESULT 8  
US-08-616-904-2  
; Sequence 2, Application US/08616904  
; Patent No. 6372206  
; GENERAL INFORMATION:  
; APPLICANT: Soos, Jeanne M.  
; APPLICANT: Schiffenbauer, Joel  
; APPLICANT: Johnson, Howard M.  
; TITLE OF INVENTION: Orally-Administered Interferon-Tau  
; COMPOSITIONS AND METHODS  
; NUMBER OF SEQUENCES: 6  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Dehlinger & Associates  
; STREET: 350 Cambridge Ave., Suite 250  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94306  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/616.904  
; FILING DATE: 15-MAR-1996  
; CLASSIFICATION: 514  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Sholtz, Charles K.  
; REGISTRATION NUMBER: 38,615  
; REFERENCE/DOCKET NUMBER: 5600-0003  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-324-0880  
; TELEFAX: 415-324-0960  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 172 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; ORIGINAL SOURCE:  
; INDIVIDUAL ISOLATE: amino acid sequence of a mature  
; INDIVIDUAL ISOLATE: Ovine tau protein  
US-08-616-904-2

Query Match 100.0%; Score 907; DB 4; Length 172;

Best Local Similarity 100.0%; Pred. No. 2e-100;  
Matches 172; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 CYLSRKLMLDARENKLLDRMNLSPHSCLDQRKDFGLPQEMVEGDLQKQDQAPFVLYEM 60  
DB 1 CYLSRKLMLDARENKLLDRMNLSPHSCLDQRKDFGLPQEMVEGDLQKQDQAPFVLYEM 60  
QY 61 LQOSFNLFYTEHSSAAWDTLLLEQLCTGLQOQLDHLDTCRGQVMEGDSSELGNMDDPIVTV 120  
DB 61 LQOSFNLFYTEHSSAAWDTLLLEQLCTGLQOQLDHLDTCRGQVMEGDSSELGNMDDPIVTV 120  
QY 121 KKYFGIYDYLQEKGYSDCAWEIVRVMRALTVTSTTLQKRLTKMGDLNSP 172  
DB 121 KKYFGIYDYLQEKGYSDCAWEIVRVMRALTVTSTTLQKRLTKMGDLNSP 172

RESULT 9  
US-09-487-792-12  
; Sequence 12, Application US/09487792  
; Patent No. 6433145  
; GENERAL INFORMATION:  
; APPLICANT: Human Genome Sciences, Inc.  
; TITLE OF INVENTION: Keratinocyte Derived Interferon  
; FILE REFERENCE: PF4822P1  
; CURRENT APPLICATION NUMBER: US/09/487,792  
; CURRENT FILING DATE: 2000-01-20  
; EARLIER APPLICATION NUMBER: 60/093,643  
; EARLIER FILING DATE: 1998-07-21  
; EARLIER APPLICATION NUMBER: PCT/US99/16424  
; EARLIER FILING DATE: 1999-07-21  
; NUMBER OF SEQ ID NOS: 54  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 12  
; LENGTH: 196  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-487-792-12

Query Match 94.5%; Score 857.5; DB 4; Length 196;  
Best Local Similarity 94.8%; Pred. No. 1.9e-94;  
Matches 164; Conservative 6; Mismatches 2; Indels 1; Gaps 1;  
QY 1 CYLSRKLMLDARENKLLDRMNLSPHSCLDQRKDFGLPQEMVEGDLQKQDQAPFVLYEM 60  
DB 24 CYLSRKLMLDARENKLLDRMNLSPHSCLDQRKDFGLPQEMVEGDLQKQDQAPFVLYEM 83  
QY 61 LQOSFNLFYTEHSSAAWDTLLLEQLCTGLQOQLDHLDT-CRGQVMEGDSSELGNMDDPIVTV 119  
DB 84 LQOTFNLFYTEHSSAAWDTLLLEQLCTGLQOQLDHLDT-CRGQVMEGDSSELGNMDDPIVTV 143  
QY 120 VKKYFGIYDYLQEKGYSDCAWEIVRVMRALTVTSTTLQKRLTKMGDLNSP 172  
DB 144 VKKYFGIYDYLQEKGYSDCAWEIVRVMRALTVTSTTLQKRLTKMGDLNSP 196

RESULT 10  
US-09-487-792-11  
; Sequence 11, Application US/09487792  
; Patent No. 6433145  
; GENERAL INFORMATION:  
; APPLICANT: Human Genome Sciences, Inc.  
; TITLE OF INVENTION: Keratinocyte Derived Interferon  
; FILE REFERENCE: PF4822P1  
; CURRENT APPLICATION NUMBER: US/09/487,792  
; CURRENT FILING DATE: 2000-01-20  
; EARLIER APPLICATION NUMBER: 60/093,643  
; EARLIER FILING DATE: 1998-07-21  
; EARLIER APPLICATION NUMBER: PCT/US99/16424  
; EARLIER FILING DATE: 1999-07-21  
; NUMBER OF SEQ ID NOS: 54  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 11  
; LENGTH: 195

TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-487-792-11

Query Match 79.7%; Score 723; DB 4; Length 195;  
Best Local Similarity 80.7%; Pred. No. 2.1e-78;  
Matches 138; Conservative 14; Mismatches 19; Indels 0; Gaps 0;

QY 1 CYLSRKLMLDARENKLLDRNRSLSPHSCLODRKDFGLPQENVEGDQKQDQAFVLYEM 60  
DB 24 CYLSEHMLGARENRLRLARNRSLSPHSCLODRKDFGLPQENVEGDQKQDQAFVLYEM 83  
QY 61 LQOSFNLFTYTHSSAAWDTLLLEQLCTGLQQLDHLDTCRQVNGEEDSELGNMDPIVTV 120  
DB 84 LQOCFNLFTYTHSSAAWDTLLLEQLCTGLQQLDHLDTCRQVNGEEDSELGNMDPIVTV 143  
QY 121 KRYFOGIYDIYQEKGYSDCAWEIVRVMRALTSTTLLQKRLTKMGGDLNS 171  
DB 144 KRYFOGIHVYLKEKGYSDCAWEIVRVMRALTSTTLLQKRLTKMGGDLNS 194

## RESULT 11

US-08-438-753B-4  
Sequence 4, Application US/08438753B  
Patent No. 5705363

## GENERAL INFORMATION:

APPLICANT: Imakawa, Kazuhito  
TITLE OF INVENTION: Interferon Tau Compositions and  
METHODS OF USE  
NUMBER OF SEQUENCES: 44

## CORRESPONDENCE ADDRESS:

ADDRESSEE: Dehlinger & Associates  
STREET: 350 Cambridge Ave., Suite 250  
CITY: Palo Alto  
STATE: CA  
COUNTRY: USA  
ZIP: 94306

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/438,753B  
FILING DATE: 10-MAY-1995  
CLASSIFICATION: 435

## PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/139,891  
FILING DATE: 19-OCT-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/847,741  
FILING DATE: 09-MAR-1992

## PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/318,050  
FILING DATE: 02-MAR-1989  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/969,890  
FILING DATE: 30-OCT-1992

## ATTORNEY/AGENT INFORMATION:

NAME: Sholtz, Charles K.  
REGISTRATION NUMBER: 38,615  
REFERENCE/DOCKET NUMBER: 5600-0001.30  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-324-0880  
TELEFAX: 415-324-0960

## INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:  
LENGTH: 172 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: amino acid sequence for a mature  
INDIVIDUAL ISOLATE: HuIFNTau protein, HuIFNTau1.  
US-08-438-753B-4

Query Match 67.5%; Score 612; DB 1; Length 172;  
Best Local Similarity 69.2%; Pred. No. 3.1e-65;  
Matches 119; Conservative 20; Mismatches 33; Indels 0; Gaps 0;

QY 1 CYLSRKLMLDARENKLLDRNRSLSPHSCLODRKDFGLPQENVEGDQKQDQAFVLYEM 60  
DB 1 CDLSQNVILVGRNRLRLDRNRSLSPHSCLODRKDFGLPQENVEGDQKQDQAFVLYEM 60  
QY 61 LQOSFNLFTYTHSSAAWDTLLLEQLCTGLQQLDHLDTCRQVNGEEDSELGNMDPIVTV 120  
DB 61 LQOSFNLFTYTHSSAAWDTLLLEQLCTGLQQLDHLDTCRQVNGEEDSELGNMDPIVTV 120  
QY 121 KRYFOGIYDIYQEKGYSDCAWEIVRVMRALTSTTLLQKRLTKMGGDLNSP 172  
DB 121 KRYFOGIHVYLKEKGYSDCAWEIVRVMRALTSTTLLQKRLTKMGGDLNSP 172

## RESULT 12

US-08-438-753B-44  
Sequence 44, Application US/08438753B  
Patent No. 5705363

## GENERAL INFORMATION:

APPLICANT: Imakawa, Kazuhito  
TITLE OF INVENTION: Interferon Tau Compositions and  
METHODS OF USE  
NUMBER OF SEQUENCES: 44

## CORRESPONDENCE ADDRESS:

ADDRESSEE: Dehlinger & Associates  
STREET: 350 Cambridge Ave., Suite 250  
CITY: Palo Alto  
STATE: CA  
COUNTRY: USA  
ZIP: 94306

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/438,753B  
FILING DATE: 10-MAY-1995  
CLASSIFICATION: 435

## PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/139,891  
FILING DATE: 19-OCT-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/847,741  
FILING DATE: 09-MAR-1992

## PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/318,050  
FILING DATE: 02-MAR-1989  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/969,890  
FILING DATE: 30-OCT-1992

## ATTORNEY/AGENT INFORMATION:

NAME: Sholtz, Charles K.  
REGISTRATION NUMBER: 38,615  
REFERENCE/DOCKET NUMBER: 5600-0001.30  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-324-0880  
TELEFAX: 415-324-0960

## INFORMATION FOR SEQ ID NO: 44:

SEQUENCE CHARACTERISTICS:  
LENGTH: 172 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
ORIGINAL SOURCE:

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Query Match 67.5%; Score 612; DB 1; Length 172;
Best Local Similarity 69.2%; Pred. No. 3.1e-65;
Matches 119; Conservative 20; Mismatches 33; Indels 0; Gaps 0;

QY 1 CYLSRKLMDARENLKLLDRMNRSLPHSCLODRKDFGLPQEMVEGDLQKDAQFPVLYEM 60
DB 1 CDLSQNHVLYGKRLRLDDEMRRSLPRFCLODRKDFALPQEMVEGGQLQQAISVLHEM 60
QY 61 LQSQFNLFYTHSSAAWDTLLLEQLCTGLQQLDHLDTCRGQVMEGDESELGNMDFIVTV 120
DB 61 LQSQFNLFYTHSSAAWDTLLLEQLCTGLQQLDHLDTCRGQVMEGDESELGNMDFIVTV 120
QY 121 KRYFGIYDLQKGYSDCAWEIVRVMRALTVTSTLQKRLTKMGDGLNSP 172
DB 121 KRYFGIYDLQKGYSDCAWEIVRVMRALTVTSTLQKRLTKMGDGLNSP 172

RESULT 13
US-08-443-883A-4
; Sequence 4, Application US/08443883A
; Patent No. 5738845
; GENERAL INFORMATION:
; APPLICANT: Bazer, Fuller W.
; APPLICANT: Johnson, Howard M.
; APPLICANT: Pontzer, Carol H.
; APPLICANT: Ott, Troy L.
; APPLICANT: Van Heeke, Gino
; APPLICANT: Imakawa, Kazuhito
; TITLE OF INVENTION: Interferon Tau Compositions and
; TITLE OF INVENTION: Methods of Use
; NUMBER OF SEQUENCES: 44
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dehlinger & Associates
; STREET: 350 Cambridge Ave., Suite 250
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306
; COMPUTER READABLE FORM:
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/443,883A
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/139,891
; FILING DATE: 19-OCT-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/847,741
; FILING DATE: 09-MAR-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/318,050
; FILING DATE: 02-MAR-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/969,890
; FILING DATE: 30-OCT-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Fabian, Gary R.
; REGISTRATION NUMBER: 33,875
; REFERENCE/DOCKET NUMBER: 5600-0001.30
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-324-0880
; TELEFAX: 415-324-0960
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 172 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein

Query Match 67.5%; Score 612; DB 1; Length 172;
Best Local Similarity 69.2%; Pred. No. 3.1e-65;
Matches 119; Conservative 20; Mismatches 33; Indels 0; Gaps 0;

QY 1 CYLSRKLMDARENLKLLDRMNRSLPHSCLODRKDFGLPQEMVEGDLQKDAQFPVLYEM 60
DB 1 CDLSQNHVLYGKRLRLDDEMRRSLPRFCLODRKDFALPQEMVEGGQLQQAISVLHEM 60
QY 61 LQSQFNLFYTHSSAAWDTLLLEQLCTGLQQLDHLDTCRGQVMEGDESELGNMDFIVTV 120
DB 61 LQSQFNLFYTHSSAAWDTLLLEQLCTGLQQLDHLDTCRGQVMEGDESELGNMDFIVTV 120
QY 121 KRYFGIYDLQKGYSDCAWEIVRVMRALTVTSTLQKRLTKMGDGLNSP 172
DB 121 KRYFGIYDLQKGYSDCAWEIVRVMRALTVTSTLQKRLTKMGDGLNSP 172

RESULT 14
US-08-443-883A-44
; Sequence 44, Application US/08443883A
; Patent No. 5738845
; GENERAL INFORMATION:
; APPLICANT: Bazer, Fuller W.
; APPLICANT: Johnson, Howard M.
; APPLICANT: Pontzer, Carol H.
; APPLICANT: Ott, Troy L.
; APPLICANT: Van Heeke, Gino
; APPLICANT: Imakawa, Kazuhito
; TITLE OF INVENTION: Interferon Tau Compositions and
; TITLE OF INVENTION: Methods of Use
; NUMBER OF SEQUENCES: 44
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dehlinger & Associates
; STREET: 350 Cambridge Ave., Suite 250
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306
; COMPUTER READABLE FORM:
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/443,883A
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/139,891
; FILING DATE: 19-OCT-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/847,741
; FILING DATE: 09-MAR-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/318,050
; FILING DATE: 02-MAR-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/969,890
; FILING DATE: 30-OCT-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Fabian, Gary R.
; REGISTRATION NUMBER: 33,875
; REFERENCE/DOCKET NUMBER: 5600-0001.30
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-324-0880
; TELEFAX: 415-324-0960
; INFORMATION FOR SEQ ID NO: 44:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 172 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
```

LENGTH: 172 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-443-883A-44

Query Match 67.5%; Score 612; DB 1; Length 172;  
Best Local Similarity 69.2%; Pred. No. 3.le-65;  
Matches 119; Conservative 20; Mismatches 33; Indels 0; Gaps 0;  
QY 1 CYLSRKLMLDARENKLLDRNRRLSPHSCLODRKDFGLPQEMVEGDQKQDQAFPPVLYEM 60  
Db 1 CDLSQNHVLYGRKNLRLLEDNRRLSPRFLQDRKDFALPQEMVEGGQLQEAQAISVLHEM 60  
QY 61 LQOSFNLFYTHESSAANDTTLLLEQLCTGLQOQLDHLDTGCRGVNGEEDSELGNMDPIVTV 120  
Db 61 LQOSFNLFYTHESSAANDTTLLLEQLCTGLQOQLDHLDTGCRGVNGEEDSELGNMDPIVTV 120  
QY 121 KRYFOGIYDYLQEKGYSDCAWEIVRVEMMRALTVTTLQKRLTKMGDLNSP 172  
Db 121 KRYFOGIHVLKRGYSDCAWETVRLEIMRSFSLISLQERLRMDMDGLSSP 172

## RESULT 15

US-08-631-328-4  
Sequence 4, Application US/08631328  
Patent No. 593286  
GENERAL INFORMATION:  
APPLICANT: Johnson, Howard M.  
APPLICANT: Pontzer, Carol H.  
APPLICANT: Subramaniam, Prem S.  
TITLE OF INVENTION: Hybrid Interferon Compositions and  
TITLE OF INVENTION: Methods of Use  
NUMBER OF SEQUENCES: 55  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Dehlinger & Associates  
STREET: 350 Cambridge Ave., Suite 250  
CITY: Palo Alto  
STATE: CA  
COUNTRY: USA  
ZIP: 94306  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/631,328  
FILING DATE: 12-APR-1996  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/438,753  
FILING DATE: 10-MAY-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Sholtz, Charles K.  
REGISTRATION NUMBER: 38,615  
REFERENCE/DOCKET NUMBER: 5600-0001.34  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-324-0880  
TELEFAX: 415-324-0960  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 172 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
ORIGINAL SOURCE:  
INDIVIDUAL ISOLATE: amino acid sequence for a mature  
INDIVIDUAL ISOLATE: HuIFNtau protein, HuIFNtau1.  
US-08-631-328-4

Query Match 67.5%; Score 612; DB 2; Length 172;

Best Local Similarity 69.2%; Pred. No. 3.le-65;  
Matches 119; Conservative 20; Mismatches 33; Indels 0; Gaps 0;  
QY 1 CYLSRKLMLDARENKLLDRNRRLSPHSCLODRKDFGLPQEMVEGDQKQDQAFPPVLYEM 60  
Db 1 CDLSQNHVLYGRKNLRLLEDNRRLSPRFLQDRKDFALPQEMVEGGQLQEAQAISVLHEM 60  
QY 61 LQOSFNLFYTHESSAANDTTLLLEQLCTGLQOQLDHLDTGCRGVNGEEDSELGNMDPIVTV 120  
Db 61 LQOSFNLFYTHESSAANDTTLLLEQLCTGLQOQLDHLDTGCRGVNGEEDSELGNMDPIVTV 120  
QY 121 KRYFOGIYDYLQEKGYSDCAWEIVRVEMMRALTVTTLQKRLTKMGDLNSP 172  
Db 121 KRYFOGIHVLKRGYSDCAWETVRLEIMRSFSLISLQERLRMDMDGLSSP 172

Search completed: April 9, 2003, 09:03:46  
Job time: 16 secs



GenCore version 5.1.4\_p5-4578  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: April 9, 2003, 08:57:31 ; Search time 17 Seconds  
(without alignments)  
618.553 Million cell updates/sec

Title: us-09-746-919-2  
Perfect score: 907  
Sequence: 1 CYLSRKLMLDARENLKLLDR.....TVSTTLQKRLTKMGDLNSP 172

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 248812 seqs, 61136040 residues

Total number of hits satisfying chosen parameters: 248812

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:\*

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2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pdb.\*  
3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pdb.\*  
4: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pdb.\*  
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10: /cgn2\_6/ptodata/2/pubpaa/US09\_PUBCOMB.pdb.\*  
11: /cgn2\_6/ptodata/2/pubpaa/US10\_NEW\_PUB.pdb.\*  
12: /cgn2\_6/ptodata/2/pubpaa/US10\_PUBCOMB.pdb.\*  
13: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pdb.\*  
14: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pdb.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description       |
|------------|-------|-------------|--------|----|-------------------|
| 1          | 907   | 100.0       | 172    | 9  | US-10-029-890-2   |
| 2          | 907   | 100.0       | 172    | 9  | US-09-910-406C-2  |
| 3          | 907   | 100.0       | 172    | 10 | US-09-746-919-2   |
| 4          | 899   | 99.1        | 172    | 9  | US-09-910-406C-4  |
| 5          | 612   | 67.5        | 172    | 9  | US-10-029-890-4   |
| 6          | 612   | 67.5        | 172    | 10 | US-09-746-919-4   |
| 7          | 612   | 67.5        | 172    | 10 | US-09-746-919-44  |
| 8          | 612   | 67.5        | 195    | 10 | US-09-746-919-12  |
| 9          | 609   | 67.1        | 172    | 10 | US-09-977-034-20  |
| 10         | 604   | 66.6        | 171    | 10 | US-09-746-919-30  |
| 11         | 599   | 66.0        | 172    | 9  | US-10-029-890-6   |
| 12         | 599   | 66.0        | 172    | 10 | US-09-746-919-34  |
| 13         | 599   | 66.0        | 195    | 10 | US-09-746-919-32  |
| 14         | 473   | 52.1        | 172    | 10 | US-09-977-034-21  |
| 15         | 473   | 52.1        | 195    | 9  | US-09-919-622A-8  |
| 16         | 454   | 50.1        | 166    | 9  | US-09-954-692-76  |
| 17         | 454   | 50.1        | 166    | 10 | US-09-559-671A-76 |
| 18         | 442   | 48.7        | 166    | 9  | US-09-954-692-78  |
| 19         | 442   | 48.7        | 166    | 10 | US-09-559-671A-78 |

Sequence 11, Appl  
Sequence 77, Appl  
Sequence 85, Appl  
Sequence 77, Appl  
Sequence 85, Appl  
Sequence 18, Appl  
Sequence 16, Appl  
Sequence 75, Appl  
Sequence 75, Appl  
Sequence 2, Appl  
Sequence 79, Appl  
Sequence 79, Appl  
Sequence 10, Appl  
Sequence 15, Appl  
Sequence 31, Appl  
Sequence 83, Appl  
Sequence 83, Appl  
Sequence 8, Appl  
Sequence 29, Appl  
Sequence 30, Appl  
Sequence 19, Appl  
Sequence 73, Appl  
Sequence 84, Appl  
Sequence 84, Appl  
Sequence 81, Appl  
Sequence 81, Appl

166 10 US-09-977-034-11  
166 9 US-09-954-692-77  
166 9 US-09-954-692-85  
166 10 US-09-559-671A-77  
166 10 US-09-559-671A-85  
166 10 US-09-977-034-18  
170 10 US-09-977-034-16  
166 9 US-09-954-692-75  
166 10 US-09-559-671A-75  
166 10 US-09-977-034-2  
166 9 US-09-954-692-79  
166 10 US-09-559-671A-79  
166 10 US-09-977-034-10  
166 10 US-09-977-034-15  
166 9 US-09-908-193-31  
166 9 US-09-954-692-83  
166 10 US-09-559-671A-83  
166 10 US-09-977-034-8  
189 9 US-09-908-193-29  
189 9 US-09-908-193-30  
166 10 US-09-977-034-19  
189 10 US-09-919-497-73  
166 9 US-09-954-692-84  
166 10 US-09-559-671A-84  
166 9 US-09-954-692-81  
166 10 US-09-559-671A-81

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428 47.2  
428 47.2  
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428 47.2  
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419 46.2  
418 46.1  
418 46.1  
405 44.7  
405 44.7

#### ALIGNMENTS

RESULT 1  
US-10-029-890-2  
Sequence 2, Application US/10029890  
Publication No. US20030012766A1  
GENERAL INFORMATION:

APPLICANT: Soos, Jeanne M.  
Schiffenbauer, Joel

JOHNSON, Howard M.  
TITLE OF INVENTION: Orally-Administered Interferon-Tau  
Compositions and Methods

NUMBER OF SEQUENCES: 6

CORRESPONDENCE ADDRESS:

ADDRESSEE: Dehlinger & Associates

STREET: 350 Cambridge Ave., Suite 250

CITY: Palo Alto

STATE: CA

COUNTRY: USA

ZIP: 94306

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA: US/10/029,890

APPLICATION NUMBER: US/10/029,890

FILING DATE: 21-Dec-2001

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/616,904

FILING DATE: 15-MAR-1996

ATTORNEY/AGENT INFORMATION:

NAME: Sholtz, Charles K.

REGISTRATION NUMBER: 38,615

REFERENCE/DOCKET NUMBER: 5600-0003

TELECOMMUNICATION INFORMATION:

TELEPHONE: 415-324-0880

TELEFAX: 415-324-0960

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 172 amino acids

TYPE: amino acid

TOPOLOGY: linear

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; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: amino acid sequence of a mature
; OVIFNtau protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-10-029-890-2

Query Match      100.0%; Score 907; DB 9; Length 172;
Best Local Similarity 100.0%; Pred. No. 6.5e-89;
Matches 172; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CYLSRKLMDARENLKLLDRNRLSPHSCLQDRKDFGLPQEMVEGDQLQKQDAFPVLYEM 60
Db 1 CYLSRKLMDARENLKLLDRNRLSPHSCLQDRKDFGLPQEMVEGDQLQKQDAFPVLYEM 60
Qy 61 LQOSFNLFYTEHSSAANDTTLLLEQLCTGLQQLDHLDTCRGVMGEDSELGNMDPIVTV 120
Db 61 LQOSFNLFYTEHSSAANDTTLLLEQLCTGLQQLDHLDTCRGVMGEDSELGNMDPIVTV 120
Qy 121 KKYFGIYDYLQEKGYSDCAWEIVRVMEMRALTVSTTLQKRLTKMGDLNSP 172
Db 121 KKYFGIYDYLQEKGYSDCAWEIVRVMEMRALTVSTTLQKRLTKMGDLNSP 172

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RESULT 2
US-09-910-406C-2
; Sequence 2, Application US/09910406C
; Publication No. US20030049277A1
; GENERAL INFORMATION:
; APPLICANT: Sokawa, Yoshio
; APPLICANT: Liu, Chih-Ping
; TITLE OF INVENTION: Composition for Treatment of and Method
; TITLE OF INVENTION: of Monitoring Hepatitis C Virus Using Interferon-tau
; FILE REFERENCE: 5600-0004.30
; CURRENT FILING DATE: 2002-07-02
; PRIOR APPLICATION NUMBER: US/09/910,406C
; PRIOR FILING DATE: 2000-10-17
; PRIOR APPLICATION NUMBER: JP 317160
; PRIOR FILING DATE: 2000-07-19
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 172
; TYPE: PRT
; ORGANISM: Ovis Aries
US-09-910-406C-2

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Query Match      100.0%; Score 907; DB 9; Length 172;
Best Local Similarity 100.0%; Pred. No. 6.5e-89;
Matches 172; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CYLSRKLMDARENLKLLDRNRLSPHSCLQDRKDFGLPQEMVEGDQLQKQDAFPVLYEM 60
Db 1 CYLSRKLMDARENLKLLDRNRLSPHSCLQDRKDFGLPQEMVEGDQLQKQDAFPVLYEM 60
Qy 61 LQOSFNLFYTEHSSAANDTTLLLEQLCTGLQQLDHLDTCRGVMGEDSELGNMDPIVTV 120
Db 61 LQOSFNLFYTEHSSAANDTTLLLEQLCTGLQQLDHLDTCRGVMGEDSELGNMDPIVTV 120
Qy 121 KKYFGIYDYLQEKGYSDCAWEIVRVMEMRALTVSTTLQKRLTKMGDLNSP 172
Db 121 KKYFGIYDYLQEKGYSDCAWEIVRVMEMRALTVSTTLQKRLTKMGDLNSP 172

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RESULT 3
US-09-746-919-2
; Sequence 2, Application US/09746919
; Patent No. US20020013452A1
; GENERAL INFORMATION:
; APPLICANT: Johnson, Howard M.
; APPLICANT: Pontzer, Carol H.
; TITLE OF INVENTION: Interferon Tau Compositions and

```

```

; TITLE OF INVENTION: Methods of Use
; NUMBER OF SEQUENCES: 44
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dehlinger & Associates
; STREET: 350 Cambridge Ave., Suite 250
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/746,919
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/045,467
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/438,753
; FILING DATE: 10-MAY-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/139,891
; FILING DATE: 19-OCT-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/847,741
; FILING DATE: 09-MAR-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/318,050
; FILING DATE: 02-MAR-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/969,890
; FILING DATE: 30-OCT-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Dehlinger, Peter J.
; REGISTRATION NUMBER: 28,006
; REFERENCE/DOCKET NUMBER: 5600-0001.36
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-0880
; TELEFAX: 650-324-0960
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 172 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: amino acid sequence of a mature
; INDIVIDUAL ISOLATE: OVIFNtau protein
US-09-746-919-2

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Query Match      100.0%; Score 907; DB 10; Length 172;
Best Local Similarity 100.0%; Pred. No. 6.5e-89;
Matches 172; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CYLSRKLMDARENLKLLDRNRLSPHSCLQDRKDFGLPQEMVEGDQLQKQDAFPVLYEM 60
Db 1 CYLSRKLMDARENLKLLDRNRLSPHSCLQDRKDFGLPQEMVEGDQLQKQDAFPVLYEM 60
Qy 61 LQOSFNLFYTEHSSAANDTTLLLEQLCTGLQQLDHLDTCRGVMGEDSELGNMDPIVTV 120
Db 61 LQOSFNLFYTEHSSAANDTTLLLEQLCTGLQQLDHLDTCRGVMGEDSELGNMDPIVTV 120
Qy 121 KKYFGIYDYLQEKGYSDCAWEIVRVMEMRALTVSTTLQKRLTKMGDLNSP 172
Db 121 KKYFGIYDYLQEKGYSDCAWEIVRVMEMRALTVSTTLQKRLTKMGDLNSP 172

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RESULT 4
US-09-910-406C-4

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; Sequence 4, Application US/09910406C  
; Publication No. US20030049277A1  
; GENERAL INFORMATION:  
; APPLICANT: Sotawa, Yoshiro  
; APPLICANT: Liu, Chih-Ping  
; TITLE OF INVENTION: Composition for Treatment of and Method  
; TITLE OF INVENTION: of Monitoring Hepatitis C Virus Using Interferon-tau  
; FILE REFERENCE: 5600-0004.30  
; CURRENT APPLICATION NUMBER: US/09/910,406C  
; CURRENT FILING DATE: 2002-07-02  
; PRIOR APPLICATION NUMBER: JP 317160  
; PRIOR FILING DATE: 2000-10-17  
; PRIOR APPLICATION NUMBER: US 60/219,128  
; PRIOR FILING DATE: 2000-07-19  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 4  
; LENGTH: 172  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: recombinant IFNtau based on Ovis aries sequence  
US-09-910-406C-4

Query Match 99.1%; Score 899; DB 9; Length 172;  
Best Local Similarity 98.8%; Pred. No. 4.6e-88;  
Matches 170; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
QY 1 CYLSRKLMDARENKLLDRNRLSPHSCLODRKDFGLPQEMVEGDQLQKQDQAPPLYEM 60  
DB 1 CYLSRKLMDARENKLLDRNRLSPHSCLODRKDFGLPQEMVEGDQLQKQDQAPPLYEM 60  
QY 61 LQOSNLFYTHSSAAWDTLLLEQLCTGLQQLDHLDTCRQVGMGEEDSELGNMDDPIVTV 120  
DB 61 LQOSNLFYTHSSAAWDTLLLEQLCTGLQQLDHLDTCRQVGMGEEDSELGNMDDPIVTV 120  
QY 121 KRYFGIYDYLOEKGYSDCAWEIVRVMRALTSTTLQKRLTKMGDLNSP 172  
DB 121 KRYFGIYDYLOEKGYSDCAWEIVRVMRALTSTTLQKRLTKMGDLNSP 172

## RESULT 5

US-10-029-890-4  
; Sequence 4, Application US/10029890  
; Publication No. US20030012766A1  
; GENERAL INFORMATION:  
; APPLICANT: Soos, Jeanne M.  
; APPLICANT: Schiftenbauer, Joel  
; APPLICANT: Johnson, Howard M.  
; TITLE OF INVENTION: Orally-Administered Interferon-Tau  
; TITLE OF INVENTION: Compositions and Methods  
; NUMBER OF SEQUENCES: 6  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Dehlinger & Associates  
; STREET: 350 Cambridge Ave., Suite 250  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94306  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/10/029,890  
; FILING DATE: 21-Dec-2001  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/08/616,904  
; FILING DATE: 15-MAR-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Sholtz, Charles K.

; REGISTRATION NUMBER: 38,615  
; REFERENCE/DOCKET NUMBER: 5600-0003  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-324-0880  
; TELEFAX: 415-324-0960  
; INFORMATION FOR SEQ ID NO: 4:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 172 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; ORIGINAL SOURCE:  
; INDIVIDUAL ISOLATE: amino acid sequence for a mature  
; HuIFNtau protein, HuIFNtau1.  
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:  
US-10-029-890-4

Query Match 67.5%; Score 612; DB 9; Length 172;  
Best Local Similarity 59.2%; Pred. No. 1.5e-57;  
Matches 119; Conservative 20; Mismatches 33; Indels 0; Gaps 0;  
QY 1 CYLSRKLMDARENKLLDRNRLSPHSCLODRKDFGLPQEMVEGDQLQKQDQAPPLYEM 60  
DB 1 CDLSQNHVLVGRKNRLRLDEMRLSPRFLQDRKDFALPQEMVEGGQLQEAQAISVLHEM 60  
QY 61 LQOSNLFYTHSSAAWDTLLLEQLCTGLQQLDHLDTCRQVGMGEEDSELGNMDDPIVTV 120  
DB 61 LQOSNLFYTHSSAAWDTLLLEQLCTGLQQLDHLDTCRQVGMGEEDSELGNMDDPIVTV 120  
QY 121 KRYFGIYDYLOEKGYSDCAWEIVRVMRALTSTTLQKRLTKMGDLNSP 172  
DB 121 KRYFGIYDYLOEKGYSDCAWEIVRVMRALTSTTLQKRLTKMGDLNSP 172

## RESULT 6

US-09-746-919-4  
; Sequence 4, Application US/09746919  
; Patent No. US20020013452A1  
; GENERAL INFORMATION:  
; APPLICANT: Johnson, Howard M.  
; APPLICANT: Pontzer, Carol H.  
; TITLE OF INVENTION: Interferon Tau Compositions and  
; TITLE OF INVENTION: Methods of Use  
; NUMBER OF SEQUENCES: 44  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Dehlinger & Associates  
; STREET: 350 Cambridge Ave., Suite 250  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94306  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/746,919  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 09/045,467  
; FILING DATE:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/438,753  
; FILING DATE: 10-MAY-1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/139,891  
; FILING DATE: 19-OCT-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/847,741  
; FILING DATE: 09-MAR-1992

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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/318,050
; FILING DATE: 02-MAR-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/969,890
; FILING DATE: 30-OCT-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Dehlinger, Peter J.
; REGISTRATION NUMBER: 28,006
; REFERENCE/DOCKET NUMBER: 5600-0001.36
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-0880
; TELEFAX: 650-324-0960
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 172 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: amino acid sequence for a mature
; INDIVIDUAL ISOLATE: HuIFNTau protein, HuIFNTau1.
US-09-746-919-4

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Query Match          67.5%; Score 612; DB 10; Length 172;
Best Local Similarity 69.2%; Pred. No. 1.5e-57;
Matches 119; Conservative 20; Mismatches 33; Indels 0; Gaps 0;

QY 1 CYSRLKMLDARENKLLDRMNRSLPHSCLODRKDFGLPQEMVGGDLQKDOAFPVLYEM 60
   |||:  :| :||:|||| | |||| | ||||| ||||| ||||| ||||| ||||| |||||
Db 1 CDLSQNHVLVGRKNRLLDENRRSLPRFCLQDRKDFALPQEMVGGQLQEAQAISVLHEM 60
   |||:  :| :||:|||| | |||| | ||||| ||||| ||||| ||||| ||||| |||||

QY 61 LQOSNLFYTEHSSAAWDTLLLEQLCTGLQOQLDHLDTCRGVNMGEDSELGNMDPIVTV 120
   |||:  :| :||:|||| | |||| | ||||| ||||| ||||| ||||| ||||| |||||
Db 61 LQOSNLFYTEHSSAAWDTLLLEQLCTGLQOQLDHLDTCRGVNMGEDSELGNMDPIVTV 120
   |||:  :| :||:|||| | |||| | ||||| ||||| ||||| ||||| ||||| |||||

QY 121 KRYFGIYDLQEKGYSDCAWEIVRVEMMRALTYSITLQKRLTKMGDDLNSP 172
   |||:  :| :||:|||| | |||| | ||||| ||||| ||||| ||||| ||||| |||||
Db 121 KRYFGIYDLQEKGYSDCAWEIVRVEMMRALTYSITLQKRLTKMGDDLNSP 172
   |||:  :| :||:|||| | |||| | ||||| ||||| ||||| ||||| ||||| |||||

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```

RESULT 7
US-09-746-919-44
; Sequence 44, Application US/09746919
; Patent No. US20020013452A1
; GENERAL INFORMATION:
; APPLICANT: Johnson, Howard M.
; APPLICANT: Pontzer, Carol H.
; TITLE OF INVENTION: Interferon Tau Compositions and
; TITLE OF INVENTION: Methods of Use
; NUMBER OF SEQUENCES: 44
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dehlinger & Associates
; STREET: 350 Cambridge Ave., Suite 250
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/746,919
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/045,467
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/438,753

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; FILING DATE: 10-MAY-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/139,891
; FILING DATE: 19-OCT-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/847,741
; FILING DATE: 09-MAR-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/318,050
; FILING DATE: 02-MAR-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/969,890
; FILING DATE: 30-OCT-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Dehlinger, Peter J.
; REGISTRATION NUMBER: 28,006
; REFERENCE/DOCKET NUMBER: 5600-0001.36
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-324-0880
; TELEFAX: 650-324-0960
; INFORMATION FOR SEQ ID NO: 44:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 172 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-746-919-44

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```

Query Match          67.5%; Score 612; DB 10; Length 172;
Best Local Similarity 69.2%; Pred. No. 1.5e-57;
Matches 119; Conservative 20; Mismatches 33; Indels 0; Gaps 0;

QY 1 CYSRLKMLDARENKLLDRMNRSLPHSCLODRKDFGLPQEMVGGDLQKDOAFPVLYEM 60
   |||:  :| :||:|||| | |||| | ||||| ||||| ||||| ||||| ||||| |||||
Db 1 CDLSQNHVLVGRKNRLLDENRRSLPRFCLQDRKDFALPQEMVGGQLQEAQAISVLHEM 60
   |||:  :| :||:|||| | |||| | ||||| ||||| ||||| ||||| ||||| |||||

QY 61 LQOSNLFYTEHSSAAWDTLLLEQLCTGLQOQLDHLDTCRGVNMGEDSELGNMDPIVTV 120
   |||:  :| :||:|||| | |||| | ||||| ||||| ||||| ||||| ||||| |||||
Db 61 LQOSNLFYTEHSSAAWDTLLLEQLCTGLQOQLDHLDTCRGVNMGEDSELGNMDPIVTV 120
   |||:  :| :||:|||| | |||| | ||||| ||||| ||||| ||||| ||||| |||||

QY 121 KRYFGIYDLQEKGYSDCAWEIVRVEMMRALTYSITLQKRLTKMGDDLNSP 172
   |||:  :| :||:|||| | |||| | ||||| ||||| ||||| ||||| ||||| |||||
Db 121 KRYFGIYDLQEKGYSDCAWEIVRVEMMRALTYSITLQKRLTKMGDDLNSP 172
   |||:  :| :||:|||| | |||| | ||||| ||||| ||||| ||||| ||||| |||||

```

```

RESULT 8
US-09-746-919-12
; Sequence 12, Application US/09746919
; Patent No. US20020013452A1
; GENERAL INFORMATION:
; APPLICANT: Johnson, Howard M.
; APPLICANT: Pontzer, Carol H.
; TITLE OF INVENTION: Interferon Tau Compositions and
; TITLE OF INVENTION: Methods of Use
; NUMBER OF SEQUENCES: 44
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dehlinger & Associates
; STREET: 350 Cambridge Ave., Suite 250
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/746,919
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/045,467

```



INFORMATION FOR SEQ ID NO: 30:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 171 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
ORIGINAL SOURCE:  
INDIVIDUAL ISOLATE: predicted amino acid coding sequence  
INDIVIDUAL ISOLATE: of SEQ ID NO:29 (HuIFNTau2).  
FEATURE:  
NAME/KEY: Modified-site  
LOCATION: 39  
OTHER INFORMATION: /note- "where Xaa a selected amino acid,  
OTHER INFORMATION: for example, Gln"  
US-09-746-919-30

Query Match 66.6%; Score 604; DB 10; Length 171;  
Best Local Similarity 69.4%; Pred No. 1.1e-56;  
Matches 118; Conservative 20; Mismatches 32; Indels 0; Gaps 0;  
QY 3 LSRKMLDARENKLLDRNRLSPHSCIQDRKDFGLPQEMVEGDQLQKDAQPPVLYEMIQ 62  
DB 2 LSONHVLGKRLRLDQMRRLSPRFLQDRKDFALPXMVEGGQLQEAQALSVLHEMIQ 61  
QY 63 QSFNLFYTEHSSAANDTTLLLEQLCTGLQQLDHLDTCRGQVNGEDSEIGNMDPIVTVYK 122  
DB 62 QSFNLFHTEHSSAANDTTLLLEQLRTGLHQLDNLDAICLGQVNGERDSALGRGTPTLALKR 121  
QY 123 YFQGIYDIQERKGYSDCAWEIVRVMRMALTVSTTLQKRLTKMGGLNSP 172  
DB 122 YFQGIHVILKEKGYSDCAWEIVRVMRSLSSLSLQERLRMMGDLSPP 171

RESULT 11  
US-10-029-890-6  
Sequence 6, Application US/10029890  
Publication No. US20030012766A1  
GENERAL INFORMATION:  
APPLICANT: Soos, Jeanne M.  
Schiffenbauer, Joel  
Johnson, Howard M.  
TITLE OF INVENTION: Orally-Administered Interferon-Tau  
Compositions and Methods  
NUMBER OF SEQUENCES: 6  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Dehlinger & Associates  
STREET: 350 Cambridge Ave., Suite 250  
CITY: Palo Alto  
STATE: CA  
COUNTRY: USA  
ZIP: 94306  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/029,890  
FILING DATE: 21-Dec-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/616,904  
FILING DATE: 15-MAR-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Sholtz, Charles K.  
REGISTRATION NUMBER: 38,615  
REFERENCE/DOCKET NUMBER: 5600-0003  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-324-0880  
TELEFAX: 415-324-0960  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 172 amino acids

TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 6:  
US-10-029-890-6  
Query Match 66.0%; Score 599; DB 9; Length 172;  
Best Local Similarity 68.6%; Pred. No. 3.6e-56;  
Matches 118; Conservative 19; Mismatches 35; Indels 0; Gaps 0;  
QY 1 CYLSRKMLDARENKLLDRNRLSPHSCIQDRKDFGLPQEMVEGDQLQKDAQPPVLYEM 60  
DB 1 CDLSQNHVLGVSQNLRLILGQMRRLSLRFLQDRKDFAPQEMVEGGQLQEAQALSVLHEM 60  
QY 61 LQSFNLFYTEHSSAANDTTLLLEQLCTGLQQLDHLDTCRGQVNGEDSEIGNMDPIVTVY 120  
DB 61 LQSFNLFHTEHSSAANDTTLLLEQLRTGLHQLDNLDAICLGQVNGERDSALGRGTPTL 120  
QY 121 KRYFQGIYDIQERKGYSDCAWEIVRVMRMALTVSTTLQKRLTKMGGLNSP 172  
DB 121 KRYFQGIHVILKEKGYSDCAWEIVRVMRSLSSLSLQERLRMMGDLSPP 172  
RESULT 12  
US-09-746-919-34  
Sequence 34, Application US/09746919  
Patent No. US20020013452A1  
GENERAL INFORMATION:  
APPLICANT: Johnson, Howard M.  
Pontzer, Carol H.  
TITLE OF INVENTION: Interferon Tau Compositions and  
Methods of Use  
NUMBER OF SEQUENCES: 44  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Dehlinger & Associates  
STREET: 350 Cambridge Ave., Suite 250  
CITY: Palo Alto  
STATE: CA  
COUNTRY: USA  
ZIP: 94306  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/746,919  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/045,467  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/438,753  
FILING DATE: 10-MAY-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/139,891  
FILING DATE: 19-OCT-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/847,741  
FILING DATE: 09-MAR-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/318,050  
FILING DATE: 02-MAR-1989  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/969,890  
FILING DATE: 30-OCT-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: Dehlinger, Peter J.  
REGISTRATION NUMBER: 28,006  
REFERENCE/DOCKET NUMBER: 5600-0001.36  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 650-324-0880



Db 121 RRYFGIRVYLKCKYSCAWEVVRMEIMKSLFLSTNMQERLRSKDRDLGS 171

## RESULT 15

US-09-919-622A-8

; Sequence 8, Application US/09919622A

; Patent No. US20020172660A1

; GENERAL INFORMATION:

; APPLICANT: Chen, Jian

; APPLICANT: Godowski, Paul

; APPLICANT: Wood, William I.

; APPLICANT: Zhang, Dong-xiao

; TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON

; FILE REFERENCE: P12242C1 (replacement)

; CURRENT APPLICATION NUMBER: US/09/919,622A

; CURRENT FILING DATE: 2001-07-30

; PRIOR APPLICATION NUMBER: US 09/202122,

; PRIOR FILING DATE: 1999-03-04

; PRIOR APPLICATION NUMBER: PCT/US98/25672

; PRIOR FILING DATE: 1998-12-03

; NUMBER OF SEQ ID NOS: 12

; SEQ ID NO 8

; LENGTH: 195

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-919-622A-8

## Query Match

Best Local Similarity 52.1%; Score 473; DB 9; Length 195;

Matches 95; Conservative 28; Mismatches 48; Indels 0; Gaps 0;

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Db 24 CDLPQNHGLLSRNTLVLLHQMRRISPFCLKDRDRFRFPQENVKGSOLQKAHVMSVLHEM 83

Qy 61 LQQSFNLFVTEHSSAAWDTLLLEOLCTGLOQLDHLDTCRGVVMEGESELGNNMDPIVTV 120

Db 84 LQQIFSLFHTERSAAWNTLLDQLHTGLHQHLETCLLQVVGESESAGAISSPALTL 143

Qy 121 KRYFGIYDYLOEKGYSCAWEIVVRVEMMRALTVSTTLQKRLTKMGDLNS 171

Db 144 RRYFGIRVYLKCKYSCAWEVVRMEIMKSLFLSTNMQERLRSKDRDLGS 194

Search completed: April 9, 2003, 09:06:40

Job time : 17 secs